

**Pike Industries  
Androscoggin County  
Poland, Maine  
A-494-71-M-A (SM)**

**Departmental  
Findings of Fact and Order  
Air Emission License  
Amendment #1**

After review of the air emission license amendment application, staff investigation reports, and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., Section 344 and Section 590, the Department finds the following facts:

**I. REGISTRATION**

**A. Introduction**

Pike Industries, Inc. (Pike), located in Poland, Maine (**P709 & C610**) was issued an Air Emission License on August 31, 2005, permitting the operation of their asphalt plant and rock crushers.

Pike has requested an amendment to add a new cone crusher to be designated C610-5.

Pike has also requested to reduce the amount of diesel fuel allowed to be fired in the diesel generators from 110,000 gallons per calendar year to 20,000 gallons per calendar year.

**B. Revised Rock Crusher Table**

**Rock Crushers:**

<u>Designation</u>	<u>Process Rate (tons/hour)</u>	<u>Control Device</u>	<u>Date of Manufacture</u>
C610-1	450	Spray Nozzles	1993
C610-2	450	Spray Nozzles	1993
C610-3	325	Spray Nozzles	1999
C610-4	325	Spray Nozzles	1993
C610-5	325	Spray Nozzles	2007

**C. Application Classification**

The modification of a minor source is considered a major modification based on whether or not expected emission increases exceed the "Significant Emission Levels" as defined in the Department's regulations. This modification is determined to be a minor modification and has been processed as such.

## **II. BEST PRACTICAL TREATMENT**

### **A. Introduction**

In order to receive a license the applicant must control emissions from each unit to a level considered by the Department to represent Best Practical Treatment (BPT), as defined in Chapter 100 of the Department regulations. Separate control requirement categories exist for new and existing equipment as well as for those sources located in designated non-attainment areas.

BPT for new sources and modifications requires a demonstration that emissions are receiving Best Available Control Technology (BACT), as defined in Chapter 100 of the Department's regulations. BACT is a top-down approach to selecting air emission controls considering economic, environmental and energy impacts.

### **B. Rock Crushers**

EPA NSPS Subpart OOO for Nonmetallic Mineral Processing Plants applies to fixed rock crushers with capacities greater than 25 tons/hr and portable rock crushers with capacities greater than 150 tons/hr, constructed after August 31, 1983. C610-5 was manufactured in 2007 with a processing rate of 325 tons/hr and is therefore subject to NSPS Subpart OOO requirements.

The regulated pollutant from the rock crushers is particulate emissions. To meet the requirements of BACT for control of PM emissions from the rock crushers, Pike shall operate and maintain water sprays on the rock crushers as needed. Visible emissions from the rock crushers shall be limited to no greater than 10% opacity on a six (6) minute block average basis.

### **C. Revised Facility Emissions**

- 325,000 gallons per calendar year #2 fuel oil, #4 fuel oil and specification waste oil in the batch mix asphalt plant (#2 fuel oil 0.5% sulfur maximum, #4 fuel oil and specification waste oil 0.7% sulfur maximum)
- 20,000 gallons per calendar year diesel fuel, (0.05% sulfur by weight maximum) in G610-1, G610-2, G610-3 and G610-4 (combined)

#### **Total Annual Emissions for the Facility** (used to calculate the annual license fee)

<b>Pollutant</b>	<b>Asphalt Plant</b>	<b>Diesel Engines</b>	<b>Total Tons/year</b>
PM	2.87	0.19	<b>3.1</b>
PM <sub>10</sub>	2.87	0.19	<b>3.1</b>
SO <sub>2</sub> *	16.04	0.07	<b>16.1</b>
NO <sub>x</sub>	13.26	6.17	<b>19.4</b>
CO	5.38	1.33	<b>6.7</b>
VOC	3.59	0.49	<b>4.1</b>

\*Asphalt Plant SO<sub>2</sub> TPY based on firing 0.7% specification waste oil.

**ORDER**

The Department hereby grants Air Emission License Amendment A-494-71-M-A, subject to the conditions found in Air Emission License A-494-71-L-R, and in addition to the following conditions.

Severability. The invalidity or unenforceability of any provision, or part thereof, of this License shall not affect the remainder of the provision or any other provisions. This License shall be construed and enforced in all respects as if such invalid or unenforceable provision or part thereof had been omitted.

**The following shall replace Condition (17) of Air Emission License A-494-71-L-R:**

**(17) Rock Crushers**

- A. Pike shall maintain spray nozzles for particulate control on C610-1, C610-2, C610-3, C610-4 and C610-5 and operate them as necessary to limit visible emissions to no greater than 10% opacity on a six (6) minute block average basis. [MEDEP Chapters 115, BPT/BACT, and 101]
- B. Pike shall maintain a log detailing the maintenance on the water spray nozzles. The maintenance log shall be kept on-site at the rock crushing location. [MEDEP Chapter 115, BPT/BACT]
- C. Pike shall maintain a log detailing and quantifying the hours of operation on a daily basis for C610-1, C610-2, C610-3, C610-4 and C610-5. The operation log shall be kept on-site at the rock crushing location. [MEDEP Chapter 115, BPT/BACT]

**The following shall replace Condition (18)(A) of Air Emission License A-494-71-L-R:**

**(18) Diesel Engines**

- A. G610-1, G610-2, G610-3 and G610-4 (combined) shall not exceed 20,000 gallons per calendar year of diesel fuel (12 month rolling total), with a sulfur content not to exceed 0.05% by weight. Fuel use records and receipts (showing the quantity and percent sulfur of the fuel) for the diesel engines shall be maintained to demonstrate compliance.  
[MEDEP Chapter 115, BPT]

**The following is a new condition to Air Emission License A-494-71-L-R:**

**(25) New Source Performance Standards for rock crushers**

- A. C610-5 is subject to 40 CFR Part 60 Subparts A and OOO and Pike shall comply with the notification and record keeping requirements of 40 CFR Part 60.676 and Part 60.7, except for Section (a)(2) of 60.7 per Subpart OOO, §60.676(h).

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B. Pike shall have an initial performance test performed on C610-5 per the applicable sections of 40 CFR Part 60, Subpart OOO, §60.675. This consists of a certified Method 9 observation. The performance test shall be completed within 60 days after achieving the maximum production rate at which the unit will be operated, but no later than 180 days after initial startup of the unit. Pike shall submit a test notice to the regional inspector at least 30 days prior to the performance test. Any rescheduled test requires a 7 day notice to the regional inspector.

DONE AND DATED IN AUGUSTA, MAINE THIS                      DAY OF                      , 2007.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: \_\_\_\_\_  
DAVID P. LITTELL, COMMISSIONER

**The term of this amendment shall be concurrent with the term of Air Emission License A-494-71-L-R.**

PLEASE NOTE THE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: April 12, 2007

Date of application acceptance: April 27, 2007

Date filed with the Board of Environmental Protection: \_\_\_\_\_

This order prepared by Mark E. Roberts, Bureau of Air Quality.